

Figure 1.

Tail

D 30	MSKRLRV.ED	DFNPVVPYGY ARN.QNIPFL TPPFVSSDGF .KNFPPGV	46*
C 5	M.KRARPSE	TFNPVVPYDT ETGPPTVFLL TPPFVSPNGF .QESPPGV	
D 9	MSKRLRV.ED	DFNPVVPYGY ARN.QNIPFL TPPFVSSDGF .QNFPNGV	
D 17	MSKRLRV.ED	DFNPVVPYGY ARN.QNIPFL TPPFVSSDGF .KNFPPGV	
B 3	MAKRARL.ST	SFNPVVPYED ESSSQH.PFI NPGFISPDGF TQ.SPNGV	

Shaft

LSLKLADPIA	ITNGDVSLKV	66
LSLRLSEPLV	TSNGMLALKM	
LSLKLADPIA	IVNGNVSLKV	
LSLKLADPIT	IANGDVSLKV	
LSLKCNPLT	TASGSQLQLKV	

135

30	GGGLTVEQD.		
5	GNGLSL.DEA	GNLTSQNVTT VSPLKKTKS NINLEISAPL TVTSEALTVA AAAPLMVAGN TLTMQSQAPL	
9	GGGLTL.QDG	T	
17	GGGLTL.QE.		
3	GSGLTV.D..		

205

30		SGNLSV NPKAPLQ..		.VGTDKKLEL
5	TVHDSKLSIA	TQGPLTVSEG KLALQTSGPL TTDSSTLT TASPPLTTAT GSLGIDLKEP IYTQNGKLGL		
9		..GKLT V NADPPLQ..		.LTNN.KLGI
17		..GSLTV DPKAPLQ..		.LANNKKLEL
3			TT..	.DGSLEENI

275

30	ALAPPFDVRD ..	NKLAILVG DGLKVIDRSI SDLPGLLN		
5	KYGAPLHVTD	DLNTLTVATG PGVTINNTSL QTKVTGALGF DSQGNMQLNV AGGLRIDSQN RRLILDVSYP		
9	ALDAPFDVID	..NKLTLIAG HGLSII.TKE TSTLPGLRN.		
17	VYDPFEVSA ..	NKLSLKVG HGLKILDDKS AGGLKDLIG.		
3	KVNTPLTKSN HSI	..NLS PIG NGLQIEQNKL CS..		

345

30				.LVVLTGKGIG
5	FDAQNQLNLR	LGQGPLFINS AHNLDINYNK GLYLF TASNN SKKLEVNLST AKGLMF DATA IAINAGDGLE		
9			T	.LVVLTGKGIG
17			K	.LVVLTGKGIG
3				

400*

30	NEELKNDDGS	NKGVGLCVRI G.E.....	GGGLTF DDKGYLVAWN NKHDIRI	
5	FG..SPNAPN	TNPLKTKIGH GLEFDNSKAM VPKLTGGLSF DSTGAITVGN KNNDKLT		
9	TESTDNNG..	..TVCVRV.. G.E.....	GGGLSF NNDGDLVAFN KKEDKRT	
17	TENLQNTDGS	SRGIGISVRA	REGLTF DNDGYLVAWN PKYDTR	
3			KLGNGLTF DSSNSIALKN N.....T	

410

LWTTLDPSPN	
LWTTPA P SPN	
LWTPDTSPN	
LWTPDTSPN	
LWTGPKPEAN	

471

30	CKID...IEK	DSKLTLVLTK CGSQILANVS LIVNGKFKI LNNKTDP.SL PKSFNIKLLF DQNGVLLENS	
5	CRLN...AEK	DAKLTLVLTK CGSQILATVS VLAV.K....	GSLAPISGT VQSAHLIIRF DENGVLLNNS
9	CKID...QDK	DSKLTLVLTK CGSQILANVS LIVVDGKYKI INNNTQP..A	LKGFTIKLLF DENGVLLMESS
17	CRID...KEK	DSKLTLVLTK CGSQILANVS LIVVSGKYQY IDHATNP..T	LKSFKIKLLF DNKGVLLPSS
3	CIIEYGKQNP	DSKLTLILVK NGGIVNGYVT LMGASDYVNT LFKKNV... .	SINVELYF DATGHILPDS

526

30	N.....I	EKQYLNFRSG DSILPEPYKN AIGFMPNLLA YAKATTDQSK IY...ARNTI	YGNIYLDNQP
5	F.....L	DPEYWNFRNG II.TEGTAYTN AVGFMPNLSA YPKSHGK.T....	AKSNI VSOVYLNQDK
9	N.....L	GKSYWNFRNE NSIMSTAYEK AIGFMPNLLA YPKPTAG.SK KY...ARDIV	YGNIYLGGKP
17	N.....L	DSTYWNRSD NLTVSEAYKN AVEFMPNLLA YPKPTTG.SK KY...ARDIV	YGNIYLGGLA
3	SSLKTDLELK	YKQTADF... .	S ARGFMPSTTA YPFVLPN.AG TH...NENYI FGQCYYKASD

582*

30	YN..PVVIKI	TFNNEAD... .	SAYSIT FNYSWTKD.Y DNIPFDSTSF TFSYIAQE
5	TK..PVTLTI	TLNGTQETGD.TT.PSAYSMS FSWDWSGHNY INEIPATSSY TFSYIAQE	
9	DQ..PVTIKT	TFNQETG... .	CEYSIT FDPSWAKT.Y VNVEFETTSF TFSYIAQE
17	YQ..PVVIKV	TFNNEAD... .	SAYSIT FEFVWNKE.Y ARVEFETTSF TFSYIAQQ
3	GALFPLETV	MLNKRLPDSR TSYVMTFLWS LNAGLAPET.	TQATLITSPF TFSYIREDD

Knob

* numbers refer to Ad5 amino acid sequence

Figure 2.

Amino Acids within Ad5 fiber Important and Critical for CAR Binding

Binds CAR?

401 (Ad5)		473 (Ad5)
D	30 LWTTLDPSPNCKID	?
C	5 LWTPAP <u>P</u> SPNCRLN	Yes
C	2 LWTPDPSPNCRIH	Yes
D	9 LWTPDTSPNCKID	Yes/No
D	17 LWTPDTSPNCKID	Yes
B	3 LWTGPKPEANCIIE	No

Figure 3.

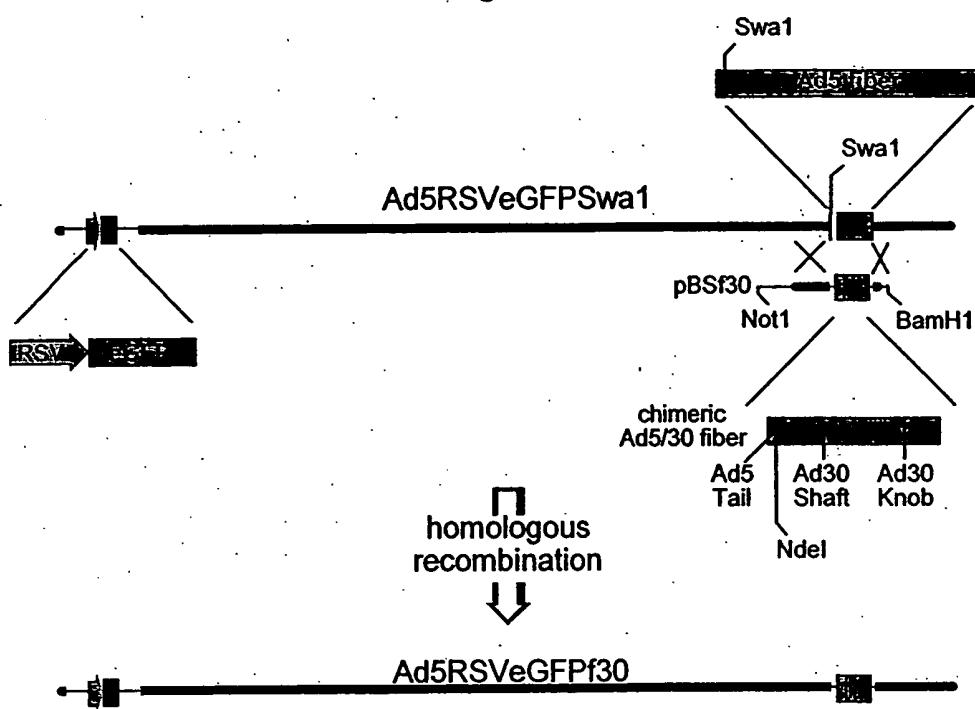


Figure 4.

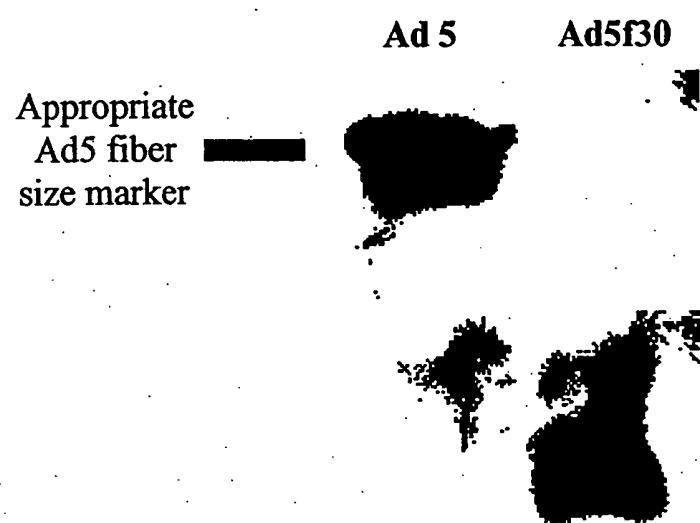


Figure 5a.

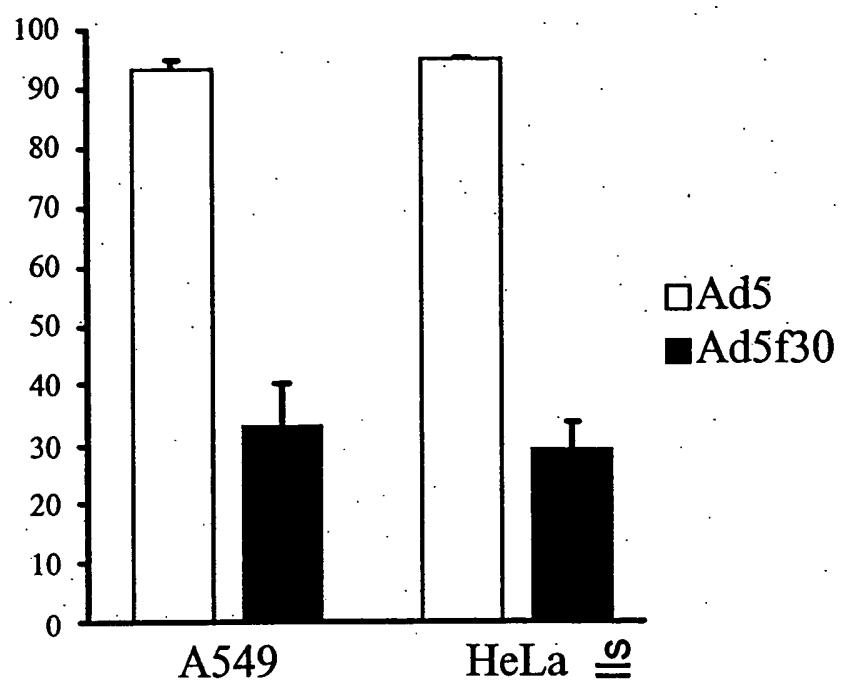


Figure 5b.

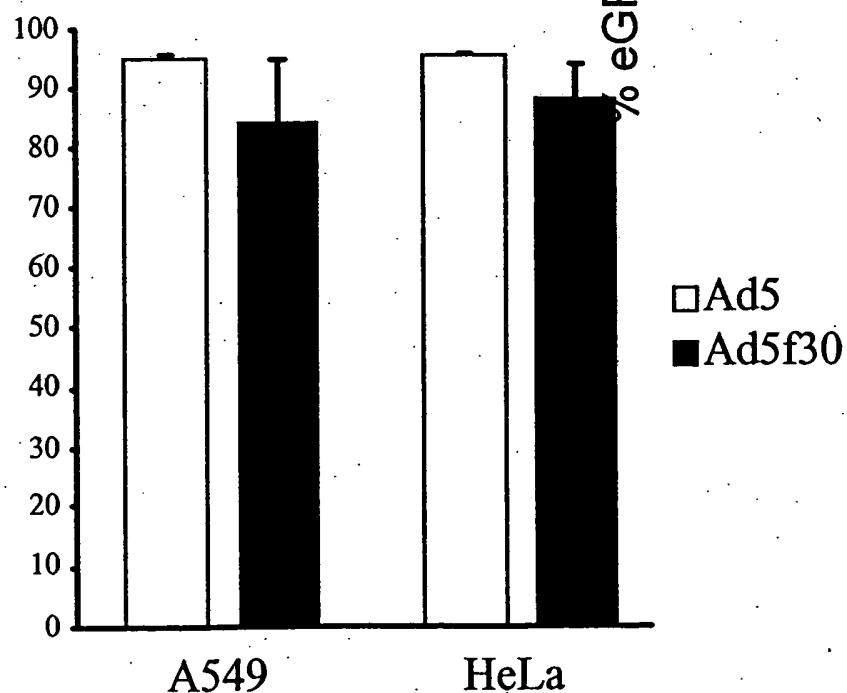


Figure 6.

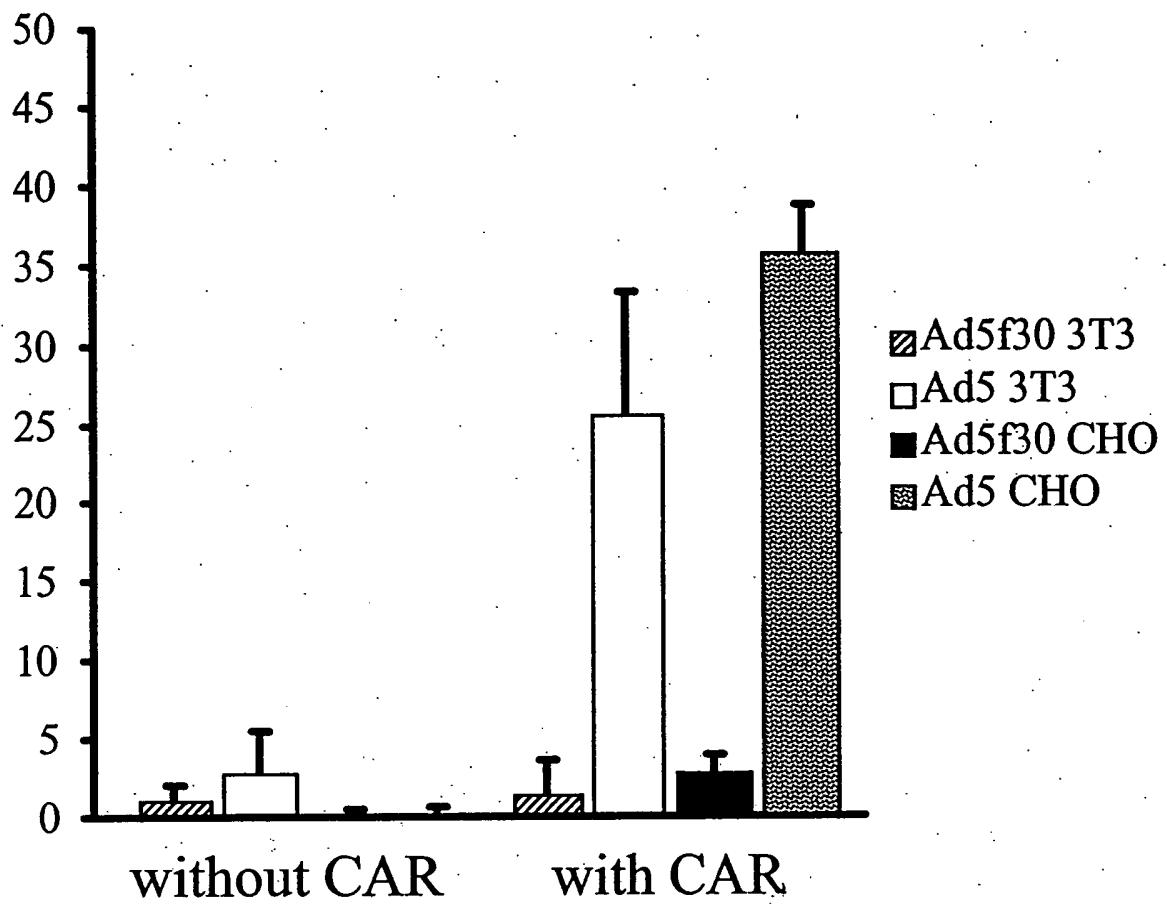


Figure 7a.

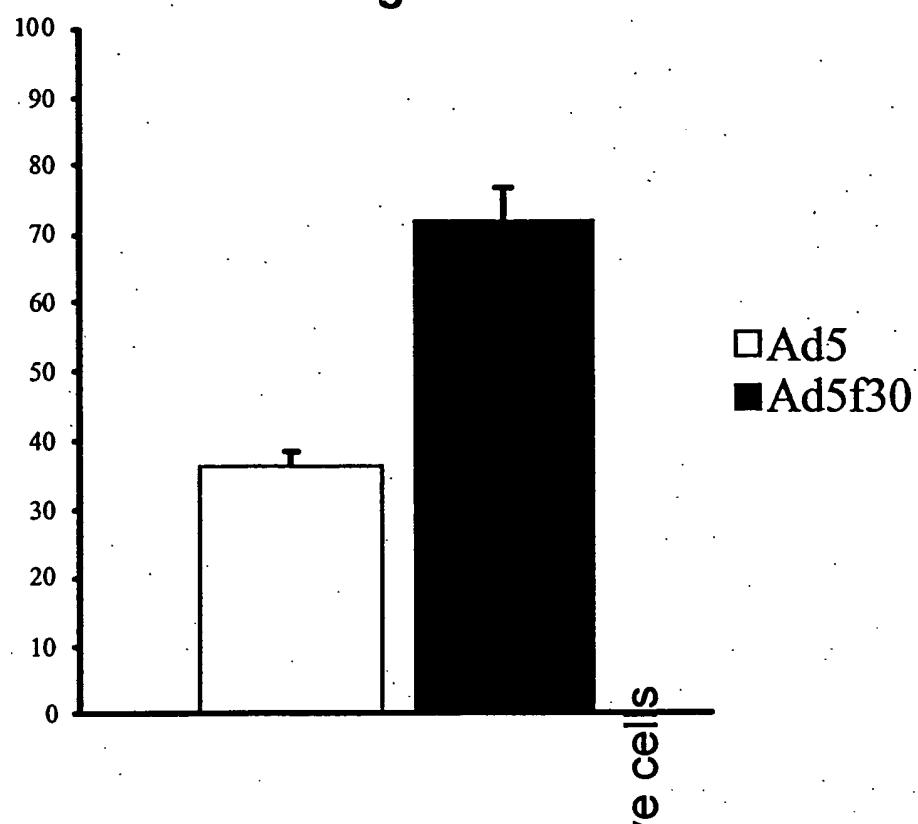


Figure 7b.

